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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,959	02/09/2004	Stephen Laurence Boren	B539 0007	7355	
	7590 07/12/2007 S, GREEN & MUTALA I	EXAM	EXAMINER		
480 - THE STATION			PERUNGAVOOR,	PERUNGAVOOR, VENKATANARAY	
601 WEST CORDOVA STREET VANCOUVER, BC V6B 1G1		•	ART UNIT	PAPER NUMBER	
CANADA			2132		
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	<i>i</i>		MAIL DATE	DELIVERY MODE	
			07/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)		
Office Asiles Ourses		10/773,959	BOREN ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Venkat Perungavoor	2132		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)	Responsive to communication(s) filed on <u>09 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.			
Disposit	ion of Claims				
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □ 10) ⊠	Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-23 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 09 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine The oath or declaration is o	vn from consideration. r election requirement. r. e: a)⊠ accepted or b)□ objecte drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority (ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>3/04, 9/05</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-6, 11-16, 20-23 are rejected under 35 U.S.C. 102(a) as being anticipated by US Patent 6445797 to McGough.
- 3. Regarding Claim 1, 11, McGough discloses the selecting a number n of sub-keys each having unique non-repeating length m_n bytes see Fig. 1 item 102, 103, 104, 104; generating n random numbers for each sub-key having length m_n see item 107, 108; generating n+1st random number see Col 7 Ln 15-44; set p= Mod m_n(R) see Col 7 Ln 65; for each byte whose position in nth random number is p applying function to all n bytes to generate value see Col 17 Ln 45-56; concatenating value to the cipher see Fig. 1 item 120; set p = p+ 1 see Col 15 Ln 40; and repeating steps described above see Col 21 Ln 61-67.
- 4. Regarding Claim 2, 12, McGough discloses the prime number being used see Col 7 Ln 22-29.
- 5. Regarding Claim 3, 13, McGough discloses the prime number greater than 10 see Col 9 Ln 29-40.
- 6. Regarding Claim 4-6, 14-16, 20-23, McGough discloses the exclusive-or, delinearization and substitution function see Col 2 Ln 8-17.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 8. Claims 7-8,17-18, are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6445797 to McGough in view of US Patent 5850450 to Schweitzer et al.(hereinafter Schweitzer).
- 9. Regarding Claim 7-8, 17-18, McGough does not disclose the generating a random number that is not a perfect square and taking the square root of that number. Further, concatenating that byte until a length m_n is reached. However, Schweitzer discloses the generating a random number that is not a perfect square and taking the square root of that number. Further, concatenating that byte until a length m_n is reached see Fig. 8 item 801, 802 & Col 5 Ln 49-60. And the length being four bytes long see Col 10 Ln 23-28. It would be obvious to one having ordinary skill in the art at the time of the invention to include the the generating a random number that is not a perfect square and taking the square root of that number. Further, concatenating that byte until a length m_n is reached in the invention of McGough in order to generate a prime that is pseudo-random as taught in see Col 9 Ln 55-64.
- 10. Regarding Claim 9-10, 19, McGough discloses the mod function being used see Col 8 Ln 18. *Conclusion*
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkat Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VP/ Venkat Perungavoor Examiner Art Unit 2132 July 7, 2007

GILBERTO BARRON JC SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100